



CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001-2015 Certified Company

NABL Accredited As Per ISO/IEC 17025:2017 Laboratory



QC ABSTRACT

Name of Work: Improvements to Drains and Providing Asphaltting to Roads at Havanoor Layout and Surroundings in Ward No.14 Bagalagunte

Sl. No.	Item	Quantity As Per BOQ	Required No's of testes as per Frequency	Actual No's of testes as per Frequency	Testes Results
1	PCC 1:3:6	169.88 Cum	1	1	Pass
2	M20	354.19 Cum	11	11	Pass
3	Steel TMT	23.02 Tonne	1	1	Pass
4	Precast slab-100mm	926.64Sqm	1	1	Pass
5	WMM	161.20 Cum	-	-	
		Atterberg Limits	2	2	Pass
		AIV	1	1	Pass
		Shape Test	1	1	Pass
		Gradation	2	2	Pass
6	DBM	40.30 Cum	-	-	
		Quality of Binder	1	1	Pass
		AIV	1	1	Pass
		Shape Test	1	1	Pass
		Gradation	1	1	Pass
		Specific Gravity	1	1	Pass
		Stability of Mix	1	1	Pass
		Bitumen content	1	1	Pass
7	BC	76.60 Cum	-	-	
		Quality of Binder	1	1	Pass
		AIV	1	1	Pass
		Shape Test	1	1	Pass
		Gradation	1	1	Pass
		Specific Gravity	1	1	Pass
		Stability of Mix	2	2	Pass
		Bitumen content	2	2	Pass

Signature

Cubes
0-5 Cum 1Set
0-6-15 Cum 2Set
0-16-30 Cum 3Set
0-31-50 Cum 4Set
0 Add 1set for extra 50Cum

For CIVIL AIM CONSULTANTS & ENGINEERS

Assistant Executive Engineer
Sarahlali Sub Division
BMP

Signature
Authorised Signatory

CIVIL AIM CONSULTANTS & ENGINEERS

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Job No. CACE/BBMP/SLS/W.No.14/2022-23

Date: 03.02.2023

TEST REPORT

CLIENT	:	Assistant Executive Engineer, T.Dasarahalli Sub Division, BBMP, Bangalore.
AGENCY	:	Sri. Shivalingaiah Satish , Contractor, Bangalore.
NAME OF THE WORK	:	Improvements to Drains and Providing Asphaltting to Roads at Havanoor Layout and Surroundings in Ward No.14 Bagalagunte
SAMPLE ID	:	Cement (Zuari OPC 53 Grade)
DATE OF MANUFACTURE	:	January- 2022
DATE OF TESTING	:	01.02.2023 to 03.02.2023
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

SLNo	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269-2015
1	a) Initial Setting Time	IS-4031 (Part -5)	134 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	335 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	31.00 %	-

Note:

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For CIVIL AIM CONSULTANTS & ENGINEERS

Assistant Executive Engineer

T. Dasarahalli Sub Division

Authorised Signatory



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Job No.: CACE/BBMP/SLS/W.No.14/2022-23

Date : 03.02.2023

TEST REPORT ON FINE AGGREGATES (SAND)

Client : Assistant Executive Engineer, T.Dasarahalli Sub Division, BBMP, Bangalore.

Agency : Sri. Shivalingaiah Satish , Contractor, Bangalore.

Name of Work : Improvements to Drains and Providing Asphaltting to Roads at Havanoor Layout and Surroundings in Ward No.14 Bagalagunte

Date of Testing : 03.02.2023

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : Sand

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	78	7.80	7.80	92.2	90-100
2.36	159	15.90	23.70	76.3	75-100
1.18	178	17.80	41.50	58.5	55-90
600 Micron	156	15.60	57.10	42.9	35-59
300 Micron	249	24.90	82.00	18.0	8-30
150 Micron	125	12.50	94.50	5.5	0-10

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For CIVIL AIM CONSULTANTS & ENGINEERS

Authorized Signatory

Assistant Executive Engineer
T. Dasarahalli Sub Division
Bagalagunte, BBMP



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Job No.: CACE/BBMP/SLS/W.No.14/2022-23

Date : 03.02.2023

TEST REPORT ON FINE AGGREGATES (SAND) IS 2116-1980

Client : Assistant Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.

Agency : Sri. Shivalingaiah Satish, Contractor, Bangalore.

Name of Work : Improvements to Drains and Providing Asphaltting to Roads at Havanoor Layout and Surroundings in Ward No.14 Bagalagunte

Date of Testing : 03.02.2023

Material : Sand - Masonry Total wt. of aggregates in gms = 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	22	2.20	2.20	97.8	90-100
1.18	64	6.40	8.60	91.4	70-100
600 Micron	115	11.50	20.10	79.9	40-100
300 Micron	245	24.50	44.60	55.4	5-70
150 Micron	505	50.50	95.10	4.9	0-15

Note:

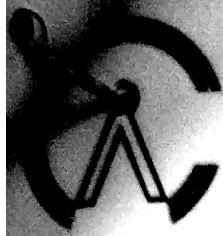
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[Signature]

For CIVIL AIM CONSULTANTS & ENGINEERS

[Signature]
Authorised Signatory

[Signature]
Assistant Executive Engineer
T. Dasarahalli Sub Division
Bagalagunte, BBMP
Bangalore - 560 073



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Job No.: CACE/BBMP/SLS/W.No.14/2022-23

Date : 03.02.2023

TEST REPORT ON COARSE AGGREGATES

Client : Assistant Executive Engineer, T.Dasarahalli Sub Division, BBMP, Bangalore.
Agency : Sri. Shivalingaiah Satish, Contractor, Bangalore.
Name of Work : Improvements to Drains and Providing Asphaltting to Roads at Havanoor Layout and Surroundings in Ward No.14 Bagalagunte
Date of Testing : 03.02.2023
IS Code : IS 383:2016
: IS 2386 (Part 1):1963(RA 2011)
Material : 20mm Aggregates

Total Wt. of Aggregates in gms= 5000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	178	3.6	3.6	96.4	95-100
10	2594	51.9	55.4	44.6	25-55
4.75	1993	39.9	95.3	4.7	0-10

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Assistant Executive Engineer
T. Dasarahalli Sub Division
Bagalagunte, BBMP

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Date : 03.02.2023

TEST REPORT ON COARSE AGGREGATES

Client : Assistant Executive Engineer, T.Dasarahalli Sub Division, BBMP, Bangalore.
Agency : Sri. Shivalingaiah Satish , Contractor, Bangalore.
Name of Work : Improvements to Drains and Providing Asphaltting to Roads at Havanoor Layout and Surroundings in Ward No.14 Bagalagunte
Date of Testing : 03.02.2023
IS Code : IS 383:2016
: IS 2386 (Part 1):1963(RA 2011)
Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	177	1.18	1.18	98.82	95-100
20	8291	55.27	56.45	43.55	30-70
10	3375	22.50	78.95	21.05	10-35
4.75	2875	19.17	98.12	1.88	0-5

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For CIVIL AIM CONSULTANTS & ENGINEERS

Assistant Executive Engineer Authorised Signatory
T. Dasarahalli Sub Division
Bagalagunte, BBMP
Bangalore-560073



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Job No.: CACE/BBMP/SLS/W.No.14/2022-23

Date : 09.02.2023

TEST REPORT OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : Assistant Executive Engineer, T.Dasarahalli Sub Division, BBMP, Bangalore.

Agency : Sri. Shivalingaiah Satish , Contractor, Bangalore.

Name of Work : Improvements to Drains and Providing Asphaltting to Roads at Havanoor Layout and Surroundings in Ward No.14 Bagalagunte

Steel Dia/Length : 8mm, 10mm," TMT"

Reference to BIS codes : IS 1786:2008(RA 2013) High Strength Deformed Steel Bars and Wires for Concrete Reinforcement-Specification
: IS 1608:2005 Metallic Materials- Tensile Testing at Ambient Temperature

Date of test : 09.02.2023

S.No	Brand	Nominal size (dia in mm)	Mass per meter (kg/meter)	TENSILE STRENGTH			
				0.20 % proof stress/ yield stress (N/mm ²)	Tensile strength (N/mm ²)	TS/YS ratio	Elongation , percent on gauge length
1	TMT	8	0.396	538	616	1.14	13
2	TMT	10	0.618	546	626	1.15	15.5

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For CIVIL AIM CONSULTANTS & ENGINEERS

Assistant Executive Engineer
T. Dasarahalli Sub Division
Bagalagunte, BBMP
Bangalore-560073

Authorized Signatory



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Job No.: CACE/BBMP/SLS/W.No.14/2022-23

Date: 20.02.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.

Agency : Sri. Shivalingaiah Satish , Contractor, Bangalore.

Name of the work : Improvements to Drains and Providing Asphaltting to Roads at Havanoor Layout and Surroundings in Ward No.14 Bagalagunte

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M₂₀

Compressive Strength as on : 7th day

SL.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	13.02.2023	20.02.2023	8.132	341.7	15.19
2	13.02.2023	20.02.2023	8.145	346.9	15.42
3	13.02.2023	20.02.2023	8.156	353.5	15.71

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Satish

For CIVIL AIM CONSULTANTS & ENGINEERS

Assistant Executive Engineer
T. Dasarahalli Sub Division
Bagalagunte, BBMP
Bangalore-560073

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Job No.: CACE/BBMP/SLS/W.No.14/2022-23

Date: 13.03.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.

Agency : Sri. Shivalingaiah Satish, Contractor, Bangalore.

Name of the work : Improvements to Drains and Providing Asphaltting to Roads at Havanoor Layout and Surroundings in Ward No.14 Bagalagunte

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M₂₀

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	13.02.2023	13.03.2023	8.178	507.2	22.54
2	13.02.2023	13.03.2023	8.162	512.8	22.79
3	13.02.2023	13.03.2023	8.154	499.5	22.20

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For CIVIL AIM CONSULTANTS & ENGINEERS

Priyarth
Authorised Signatory

Assistant Executive Engineer
T. Dasarahalli Sub Division
Bagalagunte, BBMP
Phone-560073

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Job No.: CACE/BBMP/SLS/W.No.14/2022-23

Date: 20.02.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.

Agency : Sri. Shivalingaiah Satish, Contractor, Bangalore.

Name of the work : Improvements to Drains and Providing Asphaltting to Roads at Havanoor Layout and Surroundings in Ward No.14 Bagalagunte

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M₂₀

Compressive Strength as on : 7th day

SLNo.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	13.02.2023	20.02.2023	8.163	338.7	15.05
2	13.02.2023	20.02.2023	8.142	342.5	15.22
3	13.02.2023	20.02.2023	8.132	356.9	15.86

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Authorized Signatory

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T. Dasarahalli Sub Division
Bagalagunte, BBMP
Bangalore-560073

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Job No.: CACE/BBMP/SLS/W.No.14/2022-23

Date: 13.03.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.

Agency : Sri. Shivalingaiah Satish, Contractor, Bangalore.

Name of the work : Improvements to Drains and Providing Asphaltting to Roads at Havanoor Layout and Surroundings in Ward No.14 Bagalagunte

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M₂₀

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	13.02.2023	13.03.2023	8.168	498.7	22.16
2	13.02.2023	13.03.2023	8.146	505.2	22.45
3	13.02.2023	13.03.2023	8.152	516.4	22.95

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[Signature] For CIVIL AIM CONSULTANTS & ENGINEERS

[Signature]
Authorised Signatory

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Assistant Executive Engineer
T. Dasarahalli Sub Division
Bagalagunte, BBMP
Ph: 9591618639

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Job No.: CACE/BBMP/SLS/W.No.14/2022-23

Date: 23.02.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.

Agency : Sri. Shivalingaiah Satish , Contractor, Bangalore.

Name of the work : Improvements to Drains and Providing Asphaltting to Roads at Havanoor Layout and Surroundings in Ward No.14 Bagalagunte

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M₂₀

Compressive Strength as on : 7th day

SL.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	16.02.2023	23.02.2023	8.174	339.9	15.11
2	16.02.2023	23.02.2023	8.155	344.2	15.30
3	16.02.2023	23.02.2023	8.143	345.5	15.36

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Job No.: CACE/BBMP/SLS/W.No.14/2022-23

Date: 16.03.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.

Agency : Sri. Shivalingaiah Satish, Contractor, Bangalore.

Name of the work : Improvements to Drains and Providing Asphaltting to Roads at Havanoor Layout and Surroundings in Ward No.14 Bagalagunte

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M₂₀

Compressive Strength as on : 28th day

SLNo.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	16.02.2023	16.03.2023	8.147	500.2	22.23
2	16.02.2023	16.03.2023	8.162	511.6	22.74
3	16.02.2023	16.03.2023	8.138	496.7	22.08

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[Signature]

For CIVIL AIM CONSULTANTS & ENGINEERS

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Authorised Signatory

[Signature]
Assistant Executive Engineer
T. Dasarahalli Sub Division
Bagalagunte, BBMP

Bangalore-560073

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Job No.: CACE/BBMP/SLS/W.No.14/2022-23

Date: 23.02.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.

Agency : Sri. Shivalingaiah Satish , Contractor, Bangalore.

Name of the work : Improvements to Drains and Providing Asphaltting to Roads at Havanoor Layout and Surroundings in Ward No.14 Bagalagunte

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M₂₀

Compressive Strength as on : 7th day

SLNo.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	16.02.2023	23.02.2023	8.149	342.8	15.24
2	16.02.2023	23.02.2023	8.153	345.2	15.34
3	16.02.2023	23.02.2023	8.161	353.6	15.72

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Date: 16.03.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.
Agency : Sri. Shivalingaiah Satish, Contractor, Bangalore.
Name of the work : Improvements to Drains and Providing Asphaltting to Roads at Havanoor Layout and Surroundings in Ward No.14 Bagalagunte
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm²
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M₂₀
Compressive Strength as on : 28th day

SLNo.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	16.02.2023	16.03.2023	8.155	503.4	22.37
2	16.02.2023	16.03.2023	8.149	512.8	22.79
3	16.02.2023	16.03.2023	8.163	498.6	22.16

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For CIVIL AIM CONSULTANTS & ENGINEERS

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T. Dasarahalli Sub Division
Bagalagunte, BBMP
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Job No.: CACE/BBMP/SLS/W.No.14/2022-23

Date: 28.02.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.

Agency : Sri. Shivalingaiah Satish , Contractor, Bangalore.

Name of the work : Improvements to Drains and Providing Asphaltting to Roads at Havanoor Layout and Surroundings in Ward No.14 Bagalagunte

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M₂₀

Compressive Strength as on : 7th day

SLNo.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	21.02.2023	28.02.2023	8.168	342.2	15.21
2	21.02.2023	28.02.2023	8.184	344.2	15.30
3	21.02.2023	28.02.2023	8.172	348.7	15.50

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For CIVIL AIM CONSULTANTS & ENGINEERS

Authorized Signatory

Assistant Executive Engineer
T. Dasarahalli Sub Division
Bagalagunte, BBMP
Bangalore-560073



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Job No.: CACE/BBMP/SLS/W.No.14/2022-23

Date: 21.03.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.

Agency : Sri. Shivalingaiah Satish, Contractor, Bangalore.

Name of the work : Improvements to Drains and Providing Asphaltting to Roads at Havanoor Layout and Surroundings in Ward No.14 Bagalagunte

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M₂₀

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	21.02.2023	21.03.2023	8.166	500.2	22.23
2	21.02.2023	21.03.2023	8.157	489.8	21.77
3	21.02.2023	21.03.2023	8.159	495.2	22.01

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For CIVIL AIM CONSULTANTS & ENGINEERS

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Assistant Executive Engineer
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Job No.: CACE/BBMP/SLS/W.No.14/2022-23

Date: 28.02.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.

Agency : Sri. Shivalingaiah Satish, Contractor, Bangalore.

Name of the work : Improvements to Drains and Providing Asphaltting to Roads at Havanoor Layout and Surroundings in Ward No.14 Bagalagunte

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M₂₀

Compressive Strength as on : 7th day

SLNo.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	21.02.2023	28.02.2023	8.149	344.2	15.30
2	21.02.2023	28.02.2023	8.163	346.5	15.40
3	21.02.2023	28.02.2023	8.169	352.8	15.68

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Job No.: CACE/BBMP/SLS/W.No.14/2022-23

Date: 21.03.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.
Agency : Sri. Shivalingaiah Satish , Contractor, Bangalore.
Name of the work : Improvements to Drains and Providing Asphaltting to Roads at Havanoor Layout and Surroundings in Ward No.14 Bagalagunte
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm²
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M₂₀
Compressive Strength as on : 28th day

SLNo.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	21.02.2023	21.03.2023	8.158	500.2	22.23
2	21.02.2023	21.03.2023	8.164	499.1	22.18
3	21.02.2023	21.03.2023	8.172	502.7	22.34

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Job No.: CACE/BBMP/SLS/W.No.14/2022-23

Date: 03.03.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.

Agency : Sri. Shivalingaiah Satish, Contractor, Bangalore.

Name of the work : Improvements to Drains and Providing Asphaltting to Roads at Havanoor Layout and Surroundings in Ward No.14 Bagalagunte

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M₂₀

Compressive Strength as on : 7th day

SLNo.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	24.02.2023	03.03.2023	8.158	352.8	15.68
2	24.02.2023	03.03.2023	8.181	355.2	15.79
3	24.02.2023	03.03.2023	8.196	353.8	15.72

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Assistant Executive Engineer
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Bagalagunte, BBMP
03.03.2023

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Job No.: CACE/BBMP/SLS/W.No.14/2022-23

Date: 24.03.2023

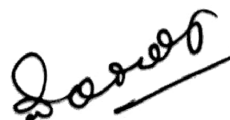
TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

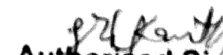
Client : Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.
Agency : Sri. Shivalingaiah Satish , Contractor, Bangalore.
Name of the work : Improvements to Drains and Providing Asphaltting to Roads at Havanoor Layout and Surroundings in Ward No.14 Bagalagunte
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm²
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M₂₀
Compressive Strength as on : 28th day

SLNo.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	24.02.2023	24.03.2023	8.188	511.4	22.73
2	24.02.2023	24.03.2023	8.199	512.8	22.79
3	24.02.2023	24.03.2023	8.183	509.6	22.65

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Date: 03.03.2023

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Client : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Agency : Sri. Shivalingaiah Satish, Contractor, Bangalore.

Name of the work : Improvements to Drains and Providing Asphaltting to Roads at Havanoor Layout and Surroundings in Ward No.14 Bagalagunte

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M₂₀

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	24.02.2023	03.03.2023	8.132	345.0	15.33
2	24.02.2023	03.03.2023	8.140	348.3	15.48
3	24.02.2023	03.03.2023	8.151	354.9	15.77

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Job No.: CACE/BBMP/SLS/W.No.14/2022-23

Date: 24.03.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Agency : Sri. Shivalingaiah Satish, Contractor, Bangalore.

Name of the work : Improvements to Drains and Providing Asphaltting to Roads at Havanoor Layout and Surroundings in Ward No.14 Bagalagunte

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M₂₀

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	24.02.2023	24.03.2023	8.187	498.5	22.16
2	24.02.2023	24.03.2023	8.192	505.6	22.47
3	24.02.2023	24.03.2023	8.201	511.5	22.73

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Job No.: CACE/BBMP/SLS/W.No.14/2022-23

Date: 06.03.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Agency : Sri. Shivalingaiah Satish, Contractor, Bangalore.

Name of the work : Improvements to Drains and Providing Asphaltting to Roads at Havanoor Layout and Surroundings in Ward No.14 Bagalagunte

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M₂₀

Compressive Strength as on : 7th day

SLNo.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	27.02.2023	06.03.2023	8.126	342.9	15.24
2	27.02.2023	06.03.2023	8.141	346.5	15.40
3	27.02.2023	06.03.2023	8.155	352.8	15.68

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Job No.: CACE/BBMP/SLS/W.No.14/2022-23

Date: 27.03.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Agency : Sri. Shivalingaiah Satish, Contractor, Bangalore.

Name of the work : Improvements to Drains and Providing Asphaltting to Roads at Havanoor Layout and Surroundings in Ward No.14 Bagalagunte

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M₂₀

Compressive Strength as on : 28th day

SLNo.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	27.02.2023	27.03.2023	8.165	505.2	22.45
2	27.02.2023	27.03.2023	8.158	516.3	22.95
3	27.02.2023	27.03.2023	8.172	524.3	23.30

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